

ABSTRACT

A coating system and coating method for damping vibration in an airfoil of a rotating component of a turbomachine. The coating system includes a metallic coating on a surface of the airfoil, and a ceramic coating overlying the metallic coating. The metallic coating contains metallic particles dispersed in a matrix having a metallic and/or intermetallic composition. The metallic particles are more ductile than the matrix, and have a composition containing silver and optionally tin. The method involves ion plasma cleaning the surface of the airfoil before depositing the metallic coating and then the ceramic coating.